t4ec 5-4-01.

BIOTEC. .vOLOGY
SYSTEMS
BRANCH,

2500
0280
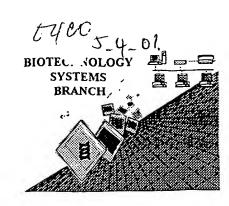
RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/802,755_

Source: _O/PE_

Date Processed by STIC: _3/27/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
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2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
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TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

BEST AVAILABLE COPY

OIPE

```
          RAW SEQUENCE LISTING              DATE: 03/27/2001
          PATENT APPLICATION:  US/09/802,755   TIME: 09:37:39

          Input Set : A:\es.txt
          Output Set: N:\CRF3\03272001\I802755.raw
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**Does Not Comply
Corrected Diskette Needed**

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     1 <110> APPLICANT: Darst, Seth Campbell,
W--> 2 <120> TITLE OF INVENTION:
W--> 3 <130> FILE REFERENCE: 2555-1-001<140>
W--> 4 <140> CURRENT APPLICATION NUMBER: US/09/802,755
C--> 4 <141> CURRENT FILING DATE: 2001-03-09


ERRORED SEQUENCES

     5 <212> TYPE: PRT<213> Thermus aquaticus<220><221> X<222> (1247)..(1247)<223>
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W--> 8 <213> ORGANISM:
E--> 8 <400> SEQUENCE: 1
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    11 1               5                   10              15
    13 Lys Ile Arg Ser Trp Ser Tyr Gly Glu Val Glu Lys Pro Glu Thr Ile
    14             20                  25                  30
    16 Asn Tyr Arg Thr Leu Lys Pro Glu Arg Asp Gly Leu Phe Asp Glu Arg
    17         35                  40                  45
    19 Ile Phe Gly Pro Ile Lys Asp Tyr Glu Cys Ala Cys Gly Lys Tyr Lys
    20     50                  55                  60
    22 Arg Gln Arg Phe Glu Gly Lys Val Cys Glu Arg Cys Gly Val Glu Val
    23 65                  70                  75                  80
    25 Thr Arg Ser Ile Val Arg Arg Tyr Arg Met Gly His Ile Glu Leu Ala
    26             85                  90                  95
    28 Thr Pro Ala Ala His Ile Trp Phe Val Lys Asp Val Pro Ser Lys Ile
    29             100                 105                 110
    31 Gly Thr Leu Leu Asp Leu Phe Ala Thr Glu Leu Glu Gln Val Leu Tyr
    32         115                 120                 125
    34 Phe Asn Lys Tyr Ile Val Leu Asp Pro Lys Gly Ala Val Leu Asp Gly
    35     130                 135                 140
    37 Val Pro Val Glu Lys Arg Gln Leu Leu Thr Asp Glu Glu Tyr Arg Glu
    38 145                 150                 155                 160
    40 Leu Arg Tyr Gly Lys Gln Glu Thr Tyr Pro Leu Pro Ala Gly Val Asp
    41             165                 170                 175
    43 Ala Leu Val Lys Asp Gly Glu Glu Val Val Lys Gly Gln Glu Leu Ala
    44             180                 185                 190
    46 Pro Gly Val Val Ser Arg Met Asp Gly Val Gly Ser Leu Pro Leu Pro
    47         195                 200                 205
    49 Arg Arg Val Arg Val Asp Tyr Leu Arg Lys Glu Arg Ala Ala Leu Arg
    50     210                 215                 220
    52 Ile Pro Leu Ser Ala Trp Val Glu Lys Glu Pro Tyr Arg Pro Gly Glu
    53 225                 230                 235                 240
    55 Val Leu Ala Glu Leu Ser Glu Pro Tyr Leu Phe Arg Ala Glu Glu Ser
    56         245                 250                 255
```

see next page for explanation

09/802,755

insert hard return after each response

SEQUENCE LISTING<110> Darst, Seth   Campbell,
Elizabeth   Korzheva, Nataliya   Mustaev, Arkady   Goldfarb, Alex<120>
CRYSTAL OF BACTERIA CORE RNA POLYMERASE WITH RIFAMPICIN<130> 2555-1-001<140>
UNASSIGNED<141> 2001-03-09<160> 4   <170> PatentIn version 3.0<210> 1<211>
1525<212> PRT<213> Thermus aquaticus<220><221> X<222> (1247)..(1247)<223>
Any amino acid can be placed at this position.

<400> 1

major format error - please contact
Robert Wax at 703-306-4119 for assistance

also, see cover sheet.

FYI **Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.**